

Challenge Status Summary

http://ccmc.gsfc.nasa.gov/challenges/challenge_status.php

- Ground magnetic perturbations (delta-B, dB/dt, regional K)
 - Two papers on delta-B published
 - Paper draft on dB/dt by Sept. 2012 (all modelers co-authors)
 - CCMC report to NOAA SWPC (Phase I) by Dec 31
 - Continue discussion (first results ?) on regional K by mini-workshop in Dec 2012.
 - Second round of delta-B metrics study to trace models improvement over time
 - Automated metrics tool at CCMC (to be applied to any event).
- Dst metrics study
 - Draft paper is ready (Rastaetter et al).
 - Long runs?

GEM-CEDAR Challenge (ongoing)

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- Auroral Oval Boundaries (poster by Yihua Zheng) – most runs at CCMC (submission deadline extended to Nov 1st, 2012)
- Joule Heating into Ionosphere (poster by Lutz Rastaetter) – broad participation (both GEM and CEDAR communities). Submission deadline extended to Nov 1st 2012.
- Role of magnetosphere drivers on ionosphere (to be discussed at CEDAR 2012).
- Plans to continue GEM-CEDAR joint project, meet at GEM-CEDAR mini workshop (additional session).

Challenge Status Summary (pending)

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- Magnetopause crossings by geosynch. satellite
 - Good project for the new FG leaders to take over
- Plasma parameters at geosynch. orbit (pending)
 - SOPA ion corrections for MPA are needed for pressure comparison. J. Borovsky and R. Friedel are working on removal of electron contamination from the low- energy ion channels of SOPA